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RAW SEQUENCE LISTING

DATE: 04/24/2002

PATENT APPLICATION: US/10/067,632

TIME: 10:11:30

Input Set : N:\Crf3\RULE60\10067632.raw

Output Set: N:\CRF3\04242002\J067632.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

4 (i) APPLICANT: Goodman, Corey S.
 5 Kolodkin, Alex L.
 6 Matthes, David
 7 Bentley, David R.
 8 O'Connor, Timothy

9 (ii) TITLE OF INVENTION: The Semaphorin Gene Family

10 (iii) NUMBER OF SEQUENCES: 100

11 (iv) CORRESPONDENCE ADDRESS:

12 (A) ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
 13 (B) STREET: 268 Bush Street, Suite 3200
 14 (C) CITY: San Francisco
 15 (D) STATE: CA
 16 (E) COUNTRY: USA
 17 (F) ZIP: 94104

18 (v) COMPUTER READABLE FORM:

19 (A) MEDIUM TYPE: Floppy disk
 20 (B) COMPUTER: IBM PC compatible
 21 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 22 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

23 (vi) CURRENT APPLICATION DATA:

C--> 24 (A) APPLICATION NUMBER: US/10/067,632
 C--> 25 (B) FILING DATE: 04-Feb-2002
 26 (C) CLASSIFICATION:

27 (vii) PRIOR APPLICATION DATA:

29 (A) APPLICATION NUMBER: US/09/060,610
 30 (B) FILING DATE:
 32 (A) APPLICATION NUMBER: 08/835,268
 33 (B) FILING DATE:

34 (viii) ATTORNEY/AGENT INFORMATION:

35 (A) NAME: Osman, Richard A.
 36 (B) REGISTRATION NUMBER: 36,627
 37 (C) REFERENCE/DOCKET NUMBER: B94-002-1

38 (ix) TELECOMMUNICATION INFORMATION:

39 (A) TELEPHONE: (415)343-4341
 40 (B) TELEFAX: (415) 343-4342
 41 (C) TELEX:

43 (2) INFORMATION FOR SEQ ID NO: 1:

44 (i) SEQUENCE CHARACTERISTICS:

45 (A) LENGTH: 6 amino acids
 46 (B) TYPE: amino acid
 47 (C) STRANDEDNESS: single

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```

48      (D) TOPOLOGY: linear
49      (ii) MOLECULE TYPE: peptide
50      (ix) FEATURE:
51          (A) NAME/KEY: Peptide
52          (B) LOCATION: 1..6
53          (D) OTHER INFORMATION: /label= SEQ01
54 /note= "Xaa denotes D or E at residue #1; Q,K,R,A
55 or N at residue #3; and Y,F or V at residue #5"
56      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 57      Xaa Cys Xaa Asn Xaa Ile
58          1          5
60 (2) INFORMATION FOR SEQ ID NO: 2:
61      (i) SEQUENCE CHARACTERISTICS:
62          (A) LENGTH: 6 amino acids
63          (B) TYPE: amino acid
64          (C) STRANDEDNESS: single
65          (D) TOPOLOGY: linear
66      (ii) MOLECULE TYPE: peptide
67      (ix) FEATURE:
68          (A) NAME/KEY: Peptide
69          (B) LOCATION: 1..6
70          (D) OTHER INFORMATION: /label= SEQ02
71 /note= "Xaa denotes Q,K,R,A or N at residue #2;
72 Y,F or V at residue #4; and R,K,Q or T at residue
73 #6"
74      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
W--> 75      Cys Xaa Asn Xaa Ile Xaa
76          1          5
78 (2) INFORMATION FOR SEQ ID NO: 3:
79      (i) SEQUENCE CHARACTERISTICS:
80          (A) LENGTH: 7 amino acids
81          (B) TYPE: amino acid
82          (C) STRANDEDNESS: single
83          (D) TOPOLOGY: linear
84      (ii) MOLECULE TYPE: peptide
85      (ix) FEATURE:
86          (A) NAME/KEY: Peptide
87          (B) LOCATION: 1..7
88          (D) OTHER INFORMATION: /label= SEQ03
89 /note= "Xaa denotes N or G at residue #4; A,S or N
90 at residue #5; Y,F,H or G at residue #6; and
91 K,R,H,N or Q at residue #7"
92      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
W--> 93      Cys Gly Thr Xaa Xaa Xaa Xaa
94          1          5
96 (2) INFORMATION FOR SEQ ID NO: 4:
97      (i) SEQUENCE CHARACTERISTICS:
98          (A) LENGTH: 8 amino acids
99          (B) TYPE: amino acid

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100         (C) STRANDEDNESS: single
101         (D) TOPOLOGY: linear
102     (ii) MOLECULE TYPE: peptide
103     (ix) FEATURE:
104         (A) NAME/KEY: Peptide
105         (B) LOCATION: 1..8
106         (D) OTHER INFORMATION: /label= SEQ04
107 /note= "Xaa denotes N or G at residue #4; and A,S
108 or N at residue #5"
109     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 110     Cys Gly Thr Xaa Xaa Xaa Xaa Pro
111         1             5
113 (2) INFORMATION FOR SEQ ID NO: 5:
114     (i) SEQUENCE CHARACTERISTICS:
115         (A) LENGTH: 10 amino acids
116         (B) TYPE: amino acid
117         (C) STRANDEDNESS: single
118         (D) TOPOLOGY: linear
119     (ii) MOLECULE TYPE: peptide
120     (ix) FEATURE:
121         (A) NAME/KEY: Peptide
122         (B) LOCATION: 1..10
123         (D) OTHER INFORMATION: /label= SEQ05
124 /note= "Xaa denotes N or G at residue #4; and C or
125 D at residue #10"
126     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
W--> 127     Cys Gly Thr Xaa Xaa Xaa Xaa Pro Xaa Xaa
128         1             5             10
130 (2) INFORMATION FOR SEQ ID NO: 6:
131     (i) SEQUENCE CHARACTERISTICS:
132         (A) LENGTH: 13 amino acids
133         (B) TYPE: amino acid
134         (C) STRANDEDNESS: single
135         (D) TOPOLOGY: linear
136     (ii) MOLECULE TYPE: peptide
137     (ix) FEATURE:
138         (A) NAME/KEY: Peptide
139         (B) LOCATION: 1..13
140         (D) OTHER INFORMATION: /label= SEQ06
141 /note= "Xaa denotes C or D at residue #10; and Y
142 or I at residue #13"
143     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
W--> 144     Cys Gly Thr Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa
145         1             5             10
147 (2) INFORMATION FOR SEQ ID NO: 7:
148     (i) SEQUENCE CHARACTERISTICS:
149         (A) LENGTH: 7 amino acids
150         (B) TYPE: amino acid
151         (C) STRANDEDNESS: single

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Input Set : N:\Crf3\RULE60\10067632.raw

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152          (D) TOPOLOGY: linear
153      (ii) MOLECULE TYPE: peptide
154      (ix) FEATURE:
155          (A) NAME/KEY: Peptide
156          (B) LOCATION: 1..7
157          (D) OTHER INFORMATION: /label= SEQ07
158 /note= "Xaa denotes R,I,Q or V at residue #1; G or
159 A at residue #2; L,V or K at residue #3; C or S at
160 residue #4; F or Y at residue #6; and D or N at
161 residue #7"
162      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
W--> 163      Xaa Xaa Xaa Xaa Pro Xaa Xaa
164          1          5
166 (2) INFORMATION FOR SEQ ID NO: 8:
167      (i) SEQUENCE CHARACTERISTICS:
168          (A) LENGTH: 7 amino acids
169          (B) TYPE: amino acid
170          (C) STRANDEDNESS: single
171          (D) TOPOLOGY: linear
172      (ii) MOLECULE TYPE: peptide
173      (ix) FEATURE:
174          (A) NAME/KEY: Peptide
175          (B) LOCATION: 1..7
176          (D) OTHER INFORMATION: /label= SEQ08
177 /note= "Xaa denotes C or S at residue #1; F or Y
178 at residue #3; D or N at residue #4; D,E,R or K at
179 residue #6; and H,L or D at residue #7"
180      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
W--> 181      Xaa Pro Xaa Xaa Pro Xaa Xaa
182          1          5
184 (2) INFORMATION FOR SEQ ID NO: 9:
185      (i) SEQUENCE CHARACTERISTICS:
186          (A) LENGTH: 9 amino acids
187          (B) TYPE: amino acid
188          (C) STRANDEDNESS: single
189          (D) TOPOLOGY: linear
190      (ii) MOLECULE TYPE: peptide
191      (ix) FEATURE:
192          (A) NAME/KEY: Peptide
193          (B) LOCATION: 1..9
194          (D) OTHER INFORMATION: /label= SEQ09
195 /note= "Xaa denotes G or A at residue #3; C or S
196 at residue #5; and D or N at residue #8"
197      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
W--> 198      Gly Xaa Xaa Xaa Xaa Pro Tyr Xaa Pro
199          1          5
201 (2) INFORMATION FOR SEQ ID NO: 10:
202      (i) SEQUENCE CHARACTERISTICS:
203          (A) LENGTH: 7 amino acids

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204         (B) TYPE: amino acid
205         (C) STRANDEDNESS: single
206         (D) TOPOLOGY: linear
207     (ii) MOLECULE TYPE: peptide
208     (ix) FEATURE:
209         (A) NAME/KEY: Peptide
210         (B) LOCATION: 1..7
211         (D) OTHER INFORMATION: /label= SEQ10
212 /note= "Xaa denotes F or Y at residue #2; G or A
213 at residue #4; and V,N or A at residue #6"
214     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
W--> 215     Leu Xaa Ser Xaa Thr Xaa Ala
216         1             5
218 (2) INFORMATION FOR SEQ ID NO: 11:
219     (i) SEQUENCE CHARACTERISTICS:
220         (A) LENGTH: 9 amino acids
221         (B) TYPE: amino acid
222         (C) STRANDEDNESS: single
223         (D) TOPOLOGY: linear
224     (ii) MOLECULE TYPE: peptide
225     (ix) FEATURE:
226         (A) NAME/KEY: Peptide
227         (B) LOCATION: 1..9
228         (D) OTHER INFORMATION: /label= SEQ11
229 /note= "Xaa denotes F or Y at residue #2; D or E
230 at residue #8; and F or Y at residue #9"
231     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
W--> 232     Leu Xaa Ser Xaa Thr Xaa Ala Xaa Xaa
233         1             5
235 (2) INFORMATION FOR SEQ ID NO: 12:
236     (i) SEQUENCE CHARACTERISTICS:
237         (A) LENGTH: 8 amino acids
238         (B) TYPE: amino acid
239         (C) STRANDEDNESS: single
240         (D) TOPOLOGY: linear
241     (ii) MOLECULE TYPE: peptide
242     (ix) FEATURE:
243         (A) NAME/KEY: Peptide
244         (B) LOCATION: 1..8
245         (D) OTHER INFORMATION: /label= SEQ12
246 /note= "Xaa denotes F or Y at residue #1; G or A
247 at residue #3; V,N or A at residue #5; D or E at
248 residue #7; and F or Y at residue #8"
249     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
W--> 250     Xaa Ser Xaa Thr Xaa Ala Xaa Xaa
251         1             5
253 (2) INFORMATION FOR SEQ ID NO: 13:
254     (i) SEQUENCE CHARACTERISTICS:
255         (A) LENGTH: 7 amino acids

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/067,632

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Input Set : N:\Crf3\RULE60\10067632.raw
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos.1,3,5
Seq#:2; Xaa Pos.2,4,6
Seq#:3; Xaa Pos.4,5,6,7
Seq#:4; Xaa Pos.4,5,6,7
Seq#:5; Xaa Pos.4,5,6,7,9,10
Seq#:6; Xaa Pos.4,5,6,7,9,10,11,12,13
Seq#:7; Xaa Pos.1,2,3,4,6,7
Seq#:8; Xaa Pos.1,3,4,6,7
Seq#:9; Xaa Pos.2,3,4,5,8
Seq#:10; Xaa Pos.2,4,6
Seq#:11; Xaa Pos.2,4,6,8,9
Seq#:12; Xaa Pos.1,3,5,7,8
Seq#:13; Xaa Pos.2,3
Seq#:15; Xaa Pos.3,6
Seq#:16; Xaa Pos.5
Seq#:17; Xaa Pos.2,5
Seq#:18; Xaa Pos.4
Seq#:19; Xaa Pos.1,4
Seq#:20; Xaa Pos.1,2,3,6
Seq#:21; Xaa Pos.1,2,4,5
Seq#:22; Xaa Pos.2,4,5,6,7
Seq#:23; Xaa Pos.1,2,3,4,6,7,8
Seq#:24; Xaa Pos.1,2,3,4,5,6,7,8
Seq#:25; Xaa Pos.2,5
Seq#:26; Xaa Pos.1,7
Seq#:27; Xaa Pos.2,3,4,5
Seq#:28; Xaa Pos.2,3,4,5,7,8
Seq#:29; Xaa Pos.3,4,5,6,8,9,10,11
Seq#:30; Xaa Pos.1,3,4,5,7
Seq#:31; Xaa Pos.1,3,4,7
Seq#:32; Xaa Pos.1,4,5
Seq#:33; Xaa Pos.2,3,4,7,8
Seq#:34; Xaa Pos.2,3,4,7,8,10
Seq#:35; Xaa Pos.2,3,4,7,8,10
Seq#:36; Xaa Pos.1,2,3
Seq#:37; Xaa Pos.1,3,4,5,6
Seq#:38; Xaa Pos.4,6,7
Seq#:39; Xaa Pos.3,5,6,7
Seq#:40; Xaa Pos.3,6
Seq#:41; Xaa Pos.1,3
Seq#:42; Xaa Pos.1,3,5,8
Seq#:43; Xaa Pos.2,7
Seq#:44; Xaa Pos.3,5
Seq#:45; Xaa Pos.2,4

RAW SEQUENCE LISTING ERROR SUMMARY
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Seq#:46; Xaa Pos.3,5
Seq#:47; Xaa Pos.2,3,4,5,8,10
Seq#:48; Xaa Pos.2,3,4,7,9
Seq#:49; Xaa Pos.2,3,6,8
Seq#:50; Xaa Pos.2,3,5,6,7,8,10,11,13
Seq#:51; Xaa Pos.2,3,5,6,7,9,10,12
Seq#:52; Xaa Pos.2,3,5,6,8,9,11
Seq#:59; N Pos. 3523,3533,3534,3535,3536,3537
Seq#:61; N Pos. 77
Seq#:68; Xaa Pos.4,5,6,7
Seq#:69; Xaa Pos.2,3
Seq#:70; Xaa Pos.6
Seq#:72; Xaa Pos.2
Seq#:73; Xaa Pos.2,3,4,7
Seq#:74; Xaa Pos.5
Seq#:75; Xaa Pos.6,7
Seq#:76; Xaa Pos.6
Seq#:77; Xaa Pos.2,7
Seq#:78; Xaa Pos.5
Seq#:79; Xaa Pos.4,5,6,7
Seq#:80; Xaa Pos.4,5,6,7
Seq#:81; Xaa Pos.4,5,6,7
Seq#:82; Xaa Pos.2,4,5,6,7
Seq#:83; Xaa Pos.1,2,3,4,6,7,8
Seq#:84; Xaa Pos.1,2,3,4,6,7,8
Seq#:85; Xaa Pos.1,2,3,4,7,8
Seq#:86; Xaa Pos.1,2,3,4,5,6,7,8
Seq#:87; Xaa Pos.1,3,4,5,7
Seq#:88; Xaa Pos.2,3,4,7,8
Seq#:89; Xaa Pos.2,3,4,7,8
Seq#:90; Xaa Pos.2,3,4,7,8,10
Seq#:91; Xaa Pos.1,3,8
Seq#:92; Xaa Pos.2,4,5,6,7
Seq#:93; Xaa Pos.2,4,5,6,7
Seq#:94; Xaa Pos.1,3,4,6,7,8
Seq#:95; Xaa Pos.1,3,4,6,7,8
Seq#:96; Xaa Pos.1,3,4,7,8
Seq#:97; Xaa Pos.2,3,4,5,6,7,8
Seq#:98; Xaa Pos.2,3,4,5,6,7,8
Seq#:99; Xaa Pos.2,3,4,5,7,8
Seq#:100; Xaa Pos.2,3,4,5,6,7,8

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\10067632.raw

Output Set: N:\CRF3\04242002\J067632.raw

L:24 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:25 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:781 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0

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L:853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:875 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0